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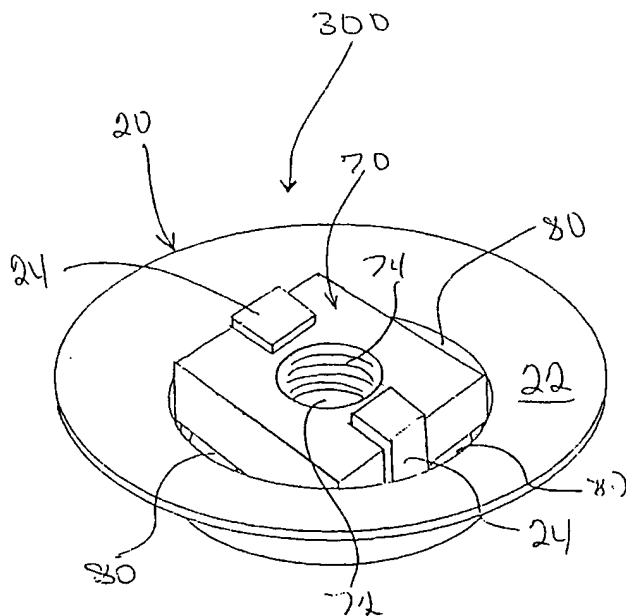
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(54) Title: DRAIN VALVE INSERT



(57) Abstract: A drain valve insert (300) employs a stamped sheet metal body (20) to support a threaded nut (70) in an elevated position over the drain opening of a filter cartridge. Multiple fluid flow passages (80) are defined between the polygonal periphery of the nut (70) and the generally cylindrical sheet metal body (20) of the insert (300). The insert body (20) defines ledges to support the nut (70) at its periphery corners and includes structures that prevent rotation of the nut relative to the insert body (20). Retaining arms (24) project upwardly from the insert body (20) and are bent over the nut (70) to axially retain the nut (70) seated against the ledges. The insert body (20) and the nut (70) are inexpensively formed in separate automated operations. Assembly of the nut (70) into the insert body (20) may also be automated.



SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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